

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/AU2004/001580

<b>A. CLASSIFICATION OF SUBJECT MATTER</b> Int. Cl. <sup>7</sup> : F16B 19/02, 21/18; H01R 4/01; B62D 65/02, 65/04 According to International Patent Classification (IPC) or to both national classification and IPC		
<b>B. FIELDS SEARCHED</b> Minimum documentation searched (classification system followed by classification symbols) Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched AU: IPC F16B 19/02, 21/18; H01R 4/01; B62D 65/02, 65/04 Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) DWPI: IPC F16B, H01R, B62D, B64G, B64D with keywords such as connect, flex, shape and similar terms.		
<b>C. DOCUMENTS CONSIDERED TO BE RELEVANT</b>		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, Y	WO 2004/001235 A (TELEZYGOGY INC.) 31 December 2003 Whole document	1-15, 46-48, 50, 52
P, Y	WO 2004/082444 A (TELEZYGOGY INC.) 30 September 2004 Figures 1-18	1-15, 46-48, 50, 52
P, X	WO 2004/101216 A (TELEZYGOGY INC.) 25 November 2004 Figures 12-19	16-38, 46, 47, 50-52
P, A	Whole document	39-45
X	US 6585442 B (BREI et al) 1 July 2003 Whole document	1-4, 7-9, 12-15, 46
Y	Whole document	1-15, 46-48, 50, 52
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C <input checked="" type="checkbox"/> See patent family annex		
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 22 February 2005		Date of mailing of the International search report 25 FEB 2005
Name and mailing address of the ISA/AU AUSTRALIAN PATENT OFFICE PO BOX 200, WODEN ACT 2606, AUSTRALIA E-mail address: pct@ipaustalia.gov.au Facsimile No. (02) 6285 3929		Authorized officer JEFFREY CARL Telephone No : (02) 6283 2543

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 02-038706 A (HITACHI METALS LTD) 8 February 1990 Whole document (& PAJ Abstract)	16, 17, 19-23, 32, 33, 50
X	JP 2001-015956 A (NEC CORP) 19 January 2001 Whole document	16-18, 22, 25- 28, 32, 33, 47, 48, 50, 52
X	WO 2002/074612 A (TELEZYGOLOGY INC.) 26 September 2002 Whole document	39, 42, 51
X	WO 1999/047819 A (RUDDUCK) 23 September 1999 Whole document	39, 42
X	US 4772112 A (ZIDER et al) 20 September 1988 Figures 5-12, 15,	46, 50
X	WO 2002/007971 A (TELEZYGOLOGY INC.) 31 January 2002 Whole document	51
NOTE: For the Y indications, US 6585442 can be combined with either of the other two documents for the claims listed.		

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### Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

### Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

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## Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

### Continuation of Box No: III

The International Searching Authority has found that there are *nine* different inventions as follows:

1. Claims 1-15 are directed to a fastener including a beam that is movable upon contraction of a material and having a flex point separate from the beam. It is considered that *the fastener including a beam and the flex point being separate from the beam* comprises a first "special technical feature".
2. Claims 16-38 are directed to a releasable fastening system having a pin with a locking cavity receivable in an aperture and a locking means having engagement means adapted to disengage the locking cavity when a material contracts. It is considered that *the pin with a locking cavity receivable in an aperture and a locking means having engagement means adapted to disengage the locking cavity* comprises a second "special technical feature".
3. Claims 39-45 are directed to a manual override for a fastening system having a shuttle moving between locking and unlocking positions and having a manual actuator for moving the shuttle to an unlocking position. It is considered that *the manual override actuator for moving the shuttle to an unlocking position* comprises a third "special technical feature".
4. Claim 46 is directed to two fastening systems connected by a linkage the linkage adapted to cause the fastening systems to release upon contraction of a material in any or each of the fastening systems and/or through manipulation of a manual override. It is considered that *the linkage between two systems being adapted to cause both systems to move to an unlocking position* comprises a fourth "special technical feature".
5. Claims 47-48 are directed to a fastener assembly including an engagement means including latch means and lock means and biasing means urging the engagement means towards the locking position and drawing means for drawing the engagement means to an unlocking position having material adapted to contract when activated. It is considered that *the combination of the latch means, lock means, the biasing means and the drawing means* comprises a fifth "special technical feature".
6. Claim 49 is directed to a strain reduction assembly including a material adapted to contract when activated and having protective means adapted to be activated at an intermediate third pull force that is between the first pull force required to move an element and a second pull force (that can cause damage). It is considered that *the protective means adapted to be activated at an intermediate third pull force that is between a first pull force and a second pull force* comprises a sixth "special technical feature".
7. Claim 50 is directed to a fastening system wherein the fastening system includes first and second engagement means that are lockable having a locking element that can be deactivated by means of contractible material to an unlocked position to unlock the engagement means from each other. It is considered that *having a locking element that is separate from the engagement means and which can be deactivated by means of contractible material to an unlocked position* comprises a seventh "special technical feature".
8. Claim 51 is directed to a framing system wherein the frame includes attachment node(s) adapted to enable delivery of one or more energy, data or material. It is considered that *the frame including attachment nodes adapted to enable delivery of one or more energy, data or material* comprises a eighth "special technical feature".
9. Claim 52 is directed to a fastener including a fastening element with actuating means including material adapted to contract when activated and having restoring means adapted to restore the material to a relaxed state when no longer activated. It is considered that *the restoring means adapted to restore the actuating means material to a relaxed state when the actuating means is no longer activated* comprises a ninth "special technical feature".

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

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This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Patent Family Member			
WO	2004/001235	NONE					
WO	2004/082444	NONE					
WO	2004/101216	NONE					
US	6585442	AU	57630/01	US	2002/0040949	WO	2001/084002
JP	02-038706	NONE					
JP	2001-015956	NONE					
WO	2002/074612	CA	2445359	EP	1379426		
WO	1999/047819	AU	29154/99	AU	2003235007	BR	9908875
		CA	2323600	CZ	20003391	EP	1062423
		HU	0101111	ID	26668	PL	343325
		ZA	200005609				
US	4772112	DK	340985	EP	146317	EP	310628
		FI	853010	HK	125596	HK	167696
		NO	853084	US	4895438	US	4896955
		WO	1985/002688	WO	1987/007961		
WO	2002/007971	AU	77387/01	CA	2414317	EP	1309449
		US	2003/0235661				